

09/288,556

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 17:33:08 ON 30 JUL 2003

=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

0.21	0.21
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FILE 'REGISTRY' ENTERED AT 17:33:19 ON 30 JUL 2003

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 JUL 2003 HIGHEST RN 557055-78-4

DICTIONARY FILE UPDATES: 29 JUL 2003 HIGHEST RN 557055-78-4

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNnote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

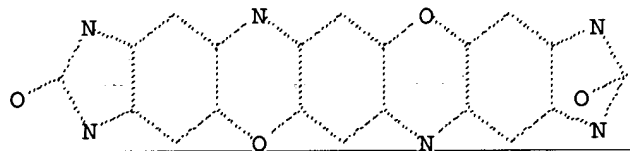
Uploading 001777.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 17:33:54 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 3 TO ITERATE

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100.0% PROCESSED 3 ITERATIONS  
SEARCH TIME: 00.00.01

3 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 3 TO 163  
PROJECTED ANSWERS: 3 TO 163

L2 3 SEA SSS SAM L1

=> s l1 sss full  
FULL SEARCH INITIATED 17:33:59 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 69 TO ITERATE

100.0% PROCESSED 69 ITERATIONS  
SEARCH TIME: 00.00.01

28 ANSWERS

L3 28 SEA SSS FUL L1

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	148.15	148.36

FILE 'CAPLUS' ENTERED AT 17:34:12 ON 30 JUL 2003  
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FILE COVERS 1907 - 30 Jul 2003 VOL 139 ISS 5  
FILE LAST UPDATED: 29 Jul 2003 (20030729/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3 and mixed crystal

13 L3  
695130 MIXED  
6 MIXEDS  
695134 MIXED

(MIXED OR MIXEDS)

1040033 CRYSTAL  
573377 CRYSTALS  
1300337 CRYSTAL  
(CRYSTAL OR CRYSTALS)  
10797 MIXED CRYSTAL  
(MIXED(W) CRYSTAL)

L4 1 L3 AND MIXED CRYSTAL

=> d l4 ibib abs hitstr

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L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:313015 CAPLUS

DOCUMENT NUMBER: 136:342137

TITLE: **Mixed crystals** of benzimidazolone

INVENTOR(S): dioxazine pigments, their production and their use  
Schmidt, Martin U.; Kempter, Peter; Plueg, Carsten;  
Born, Roland

PATENT ASSIGNEE(S): Clariant Gmbh, Germany

SOURCE: Ger. Offen., 12 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10052858	A1	20020425	DE 2000-10052858	20001024
EP 1201718	A2	20020502	EP 2001-124502	20011012
EP 1201718	A3	20030212		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

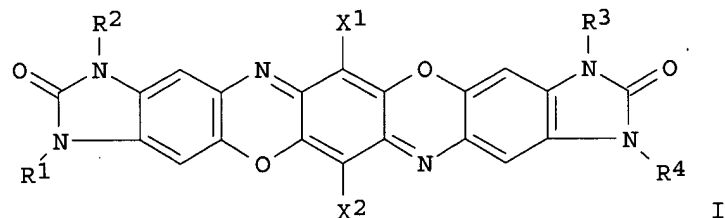
JP 2002179936	A2	20020626	JP 2001-324512	20011023
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US 2002091258	A1	20020711	US 2001-1777	20011024
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PRIORITY APPLN. INFO.: DE 2000-10052858 A 20001024

OTHER SOURCE(S): CASREACT 136:342137; MARPAT 136:342137

GI



AB **Mixed crystals** from two or more different benzimidazolone dioxazine pigments (I; X1, X2 = H, halogen; R1, R2, R3, R4 = H, C1118-alkyl, trifluoromethyl, C1-18-alkylcarbonyl, C5-6-cycloalkyl, optionally substituted Ph) are obtained which are sparingly sol. and are characterized by good fastness and red to blue coloration. The **mixed crystals** are suitable for pigmenting lacquers, plastics, printing inks, aq. or solvent-contg. pigment pastes, electrophotog. toners and developers, powder varnishes, ink, ink jet ink, color filters and for dyeing seeds and cosmetics.

IT 223744-94-3 415933-88-9 415933-89-0

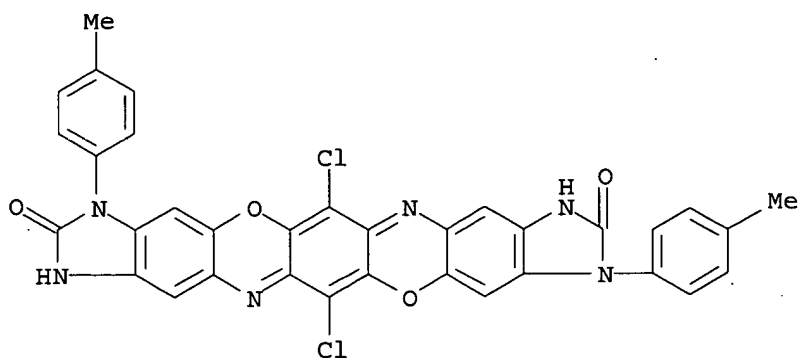
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(pigment; crystn. of **mixed crystals** of benzimidazolone dioxazine pigments)

RN 223744-94-3 CAPLUS

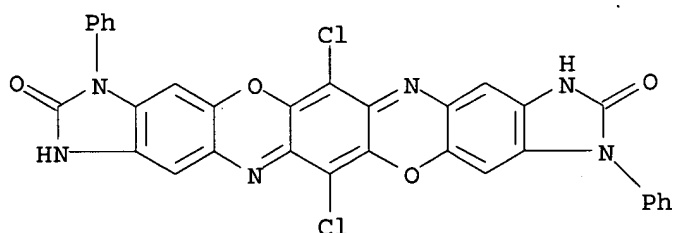
CN Diimidazo[4,5-b:4',5'-m]triphenodioxazine-2,10-dione, 6,14-dichloro-1,3,9,11-tetrahydro-1,9-bis(4-methylphenyl) - (9CI) (CA INDEX NAME)

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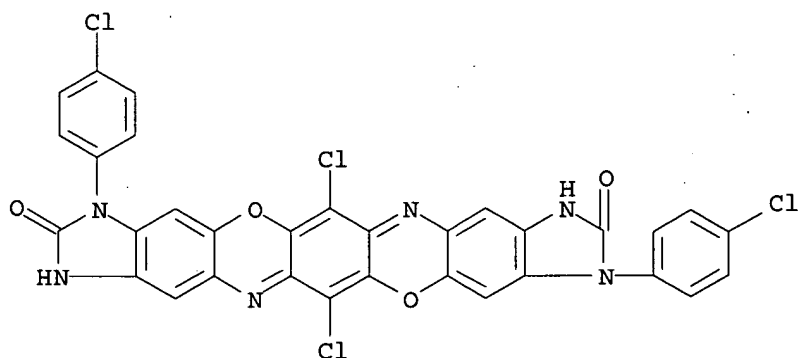
RN 415933-88-9 CAPLUS

CN Diimidazo[4,5-b:4',5'-m]triphenodioxazine-2,10-dione, 6,14-dichloro-1,3,9,11-tetrahydro-1,9-diphenyl- (9CI) (CA INDEX NAME)



RN 415933-89-0 CAPLUS

CN Diimidazo[4,5-b:4',5'-m]triphenodioxazine-2,10-dione, 6,14-dichloro-1,9-bis(4-chlorophenyl)-1,3,9,11-tetrahydro- (9CI) (CA INDEX NAME)



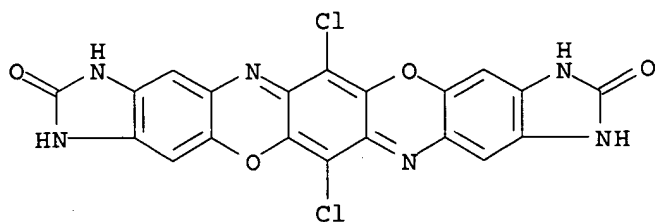
IT 167163-69-1P 223745-08-2P 244303-78-4P  
415725-15-4P 415933-87-8P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(pigment; prodn. of **mixed crystals** of benzimidazolone dioxazine pigments)

RN 167163-69-1 CAPLUS

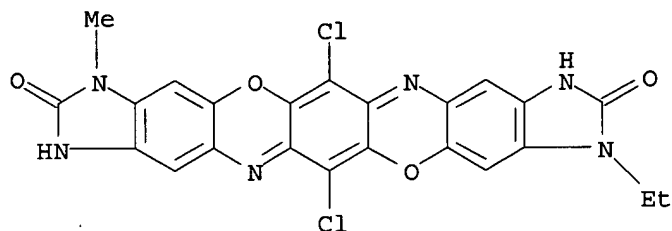
CN Diimidazo[4,5-b:4',5'-m]triphenodioxazine-2,16-dione, 6,14-dichloro-1,3,9,11-tetrahydro- (9CI) (CA INDEX NAME)

09/288,556



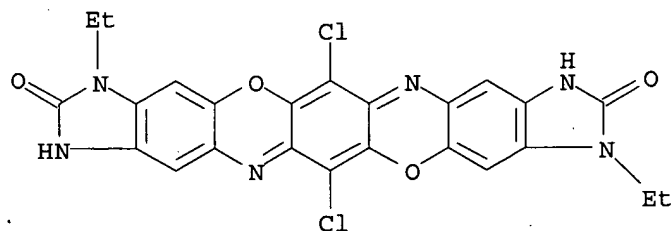
RN 223745-08-2 CAPLUS

CN Diimidazo[4,5-b:4',5'-m]triphenodioxazine-2,10-dione, 6,14-dichloro-1-ethyl-1,3,9,11-tetrahydro-9-methyl- (9CI) (CA INDEX NAME)



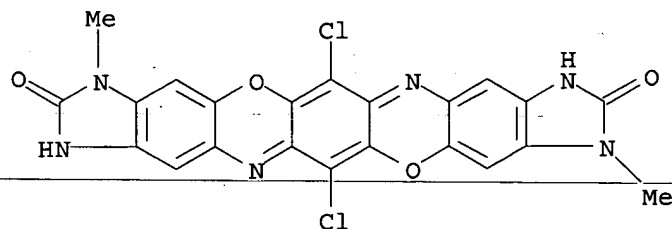
RN 244303-78-4 CAPLUS

CN Diimidazo[4,5-b:4',5'-m]triphenodioxazine-2,10-dione, 6,14-dichloro-1,9-diethyl-1,3,9,11-tetrahydro- (9CI) (CA INDEX NAME)



RN 415725-15-4 CAPLUS

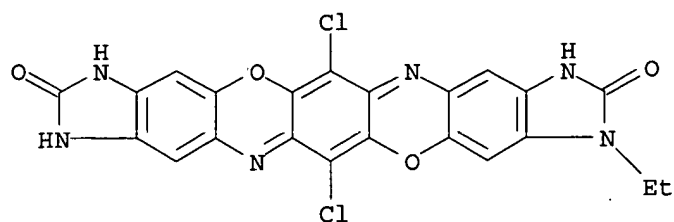
CN Diimidazo[4,5-b:4',5'-m]triphenodioxazine-2,10-dione, 6,14-dichloro-1,3,9,11-tetrahydro-1,9-dimethyl- (9CI) (CA INDEX NAME)



RN 415933-87-8 CAPLUS

CN Diimidazo[4,5-b:4',5'-m]triphenodioxazine-2,10-dione, 6,14-dichloro-1-ethyl-1,3,9,11-tetrahydro- (9CI) (CA INDEX NAME)

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IT 415933-83-4 415933-84-5

RL: TEM (Technical or engineered material use); USES (Uses)  
(prodn. of **mixed crystals** of benzimidazolone  
dioxazine pigments)

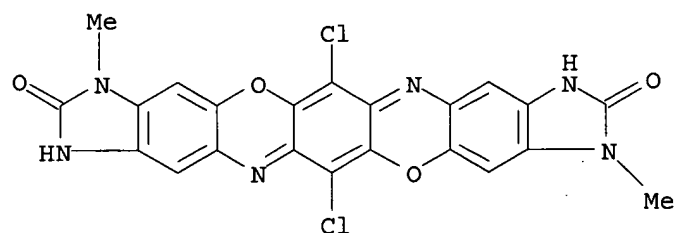
RN 415933-83-4 CAPLUS

CN Diimidazo[4,5-b:4',5'-m]triphenodioxazine-2,10-dione, 6,14-dichloro-1,9-diethyl-1,3,9,11-tetrahydro-, mixt. with 6,14-dichloro-1,9-dimethyl-1,3,9,11-tetrahydrodiimidazo[4,5-b:4',5'-m]triphenodioxazine-2,10-dione (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 415725-15-4

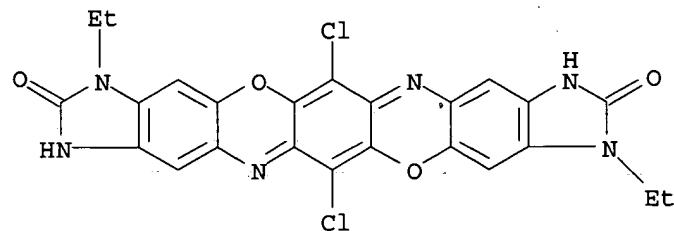
CMF C22 H12 Cl2 N6 O4



CM 2

CRN 244303-78-4

CMF C24 H16 Cl2 N6 O4



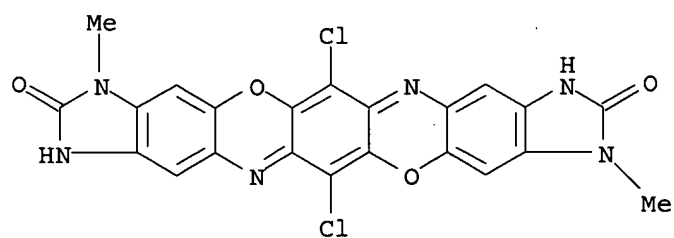
RN 415933-84-5 CAPLUS

CN Diimidazo[4,5-b:4',5'-m]triphenodioxazine-2,10-dione, 6,14-dichloro-1,9-diethyl-1,3,9,11-tetrahydro-, mixt. with 6,14-dichloro-1-ethyl-1,3,9,11-tetrahydro-9-methyldiimidazo[4,5-b:4',5'-m]triphenodioxazine-2,10-dione and 6,14-dichloro-1,3,9,11-tetrahydro-1,9-dimethyldiimidazo[4,5-b:4',5'-m]triphenodioxazine-2,10-dione (9CI) (CA INDEX NAME)

CM 1

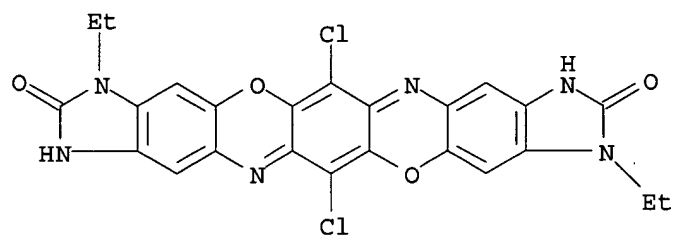
09/288,556

CRN 415725-15-4  
CMF C22 H12 Cl2 N6 O4



CM 2

CRN 244303-78-4  
CMF C24 H16 Cl2 N6 O4



CM 3

CRN 223745-08-2  
CMF C23 H14 Cl2 N6 O4

